**Assignment 6: Functions**

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**Abstract**

Many a times the same code can be repeated several times in the script file. To avoid repetition, the same code can be used once in a function definition and the function can be called several times. Custom classes are written to create multiple instances of it and perform different operations on the instances using functions.

Keywords: Classes, Functions, Global Variables.

**Assignment 6: Functions**

Assignment 6 is the sixth coding assignment of the IT Fundamentals (IT FDN 110 A) course I am taking at University of Washington. The goal of this assignment is to help me understand the usage of functions and classes. Moreover, I will be re-organizing my code using functions in the assignment. This the [link](https://github.com/ruchanimbalkar/IntroToProg-Python-Mod06) to my GitHub account for Assignment 06.

In this assignment, a Python script gives the user a menu of choices. It is an upgrade of Assignment 5 wherein we are performing similar tasks, but we are replacing the repeated code with functions.

**Reflection**

In this week, I learnt about functions. According to Professor Root, functions (or methods) help in reusing lines of code that are repeated multiple times in the script but perform the same function which can benefit everyone in the project team (2024). Furthermore, Professor Root also states that Classes can be used to store custom collection of data or process the data using functions (2024).

**Program Summary**

I began the program using the starter file



provided for Assignment 6. I updated the file

A screenshot of a computer program

Description automatically generatedwith my name in the script header change log.

**Figure 1** Assignment 05 Update Script Header



According to Professor Root, there are three layers of a programming script:

1. Data
2. Processing
3. Presentation.

After studying, from the notes provided for this module, I added sections Global Variables, Function and the main body in comment form in my program. A screenshot of a computer

Description automatically generated

**References**

Randall, R.(n.d.). *IT Fundamentals* *110 A* [MOOC]. University of Washington. [Foundations of Programming (Python) - UW Professional & Continuing Education](https://www.pce.uw.edu/courses/foundations-of-programming-python)